## Small Business Innovation Research/Small Business Tech Transfer

# ModelLab: A Cloud-Based Platform to Support Advanced Geospatial Modeling of Earth Observation Data, Phase I

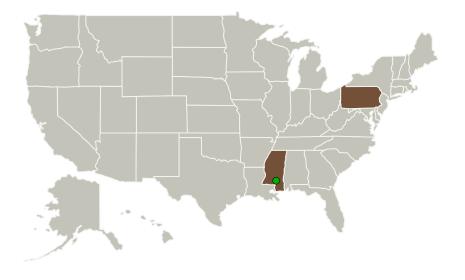


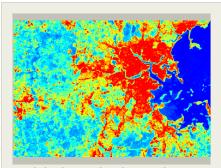
Completed Technology Project (2015 - 2015)

# **Project Introduction**

The availability of geospatial data has increased dramatically over the past half-century, and so has the size of individual datasets. The ability to gather, store, access, and analyze these large geospatial datasets provides unprecedented opportunities for innovation and understanding that are only partially addressed by existing geospatial data processing tools and public cloud computing platforms. The ModelLab will address this concern by providing an entirely new type of user experience that will make geospatial modeling capabilities available not only to trained geospatial professionals, but also to non-technical users in a broad range of public and private sector positions. Further, it will both simplify and shorten the development process for a host of model-driven software applications by providing developers with a growing catalog of well-crafted models to build and innovate from.

# **Primary U.S. Work Locations and Key Partners**





ModelLab: A Cloud-Based Platform to Support Advanced Geospatial Modeling of Earth Observation Data, Phase I

# **Table of Contents**

Project Introduction	1
Primary U.S. Work Locations	
and Key Partners	1
Project Transitions	2
Organizational Responsibility	2
Project Management	2
Technology Maturity (TRL)	2
Images	3
Technology Areas	3
Target Destinations	3



## Small Business Innovation Research/Small Business Tech Transfer

# ModelLab: A Cloud-Based Platform to Support Advanced Geospatial Modeling of Earth Observation Data, Phase I



Completed Technology Project (2015 - 2015)

Organizations Performing Work	Role	Туре	Location
Azavea, Inc.	Lead Organization	Industry Historically Underutilized Business Zones (HUBZones)	Philadelphia, Pennsylvania
Stennis Space Center(SSC)	Supporting Organization	NASA Center	Stennis Space Center, Mississippi

Primary U.S. Work Locations	
Mississippi	Pennsylvania

# **Project Transitions**

0

June 2015: Project Start



December 2015: Closed out

**Closeout Summary:** ModelLab: A Cloud-Based Platform to Support Advanced G eospatial Modeling of Earth Observation Data, Phase I Project Image

#### **Closeout Documentation:**

• Final Summary Chart Image(https://techport.nasa.gov/file/139121)

# Organizational Responsibility

# Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

#### Lead Organization:

Azavea, Inc.

### **Responsible Program:**

Small Business Innovation Research/Small Business Tech Transfer

# **Project Management**

#### **Program Director:**

Jason L Kessler

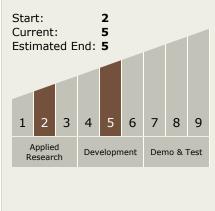
#### **Program Manager:**

Carlos Torrez

#### **Principal Investigator:**

Robert Cheetham

# Technology Maturity (TRL)





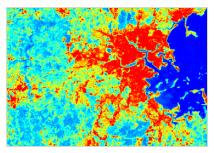
Small Business Innovation Research/Small Business Tech Transfer

# ModelLab: A Cloud-Based Platform to Support Advanced Geospatial Modeling of Earth Observation Data, Phase I



Completed Technology Project (2015 - 2015)

# **Images**



# Briefing Chart Image ModelLab: A Cloud-Based Platform to Support Advanced Geospatial Modeling of Earth Observation Data, Phase I (https://techport.nasa.gov/imag e/137192)

# **Technology Areas**

#### **Primary:**

- TX11 Software, Modeling, Simulation, and Information Processing

# **Target Destinations**

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System

